

Fanshawe College

FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

Documentation (Approvals etc...)

Sheet Metal - Apprentice

2013

SMA1 Curriculum Modification for 2013-14

Fanshawe College

Follow this and additional works at: https://first.fanshawec.ca/cae_buildingtech_sheetmetal_apprentice_documentation

Request for Late Change to Degree Audit Form

FANSHAWE
COLLEGE



Office of the Registrar
[Rm. #E1012]

To the Division --

1. A copy of the Degree Audit Report (SDAR) with changes marked must accompany this request.
2. Please keep Yellow Copy of the Form and photocopy of SDAR Report with marked changes for your records
3. Allow 5 business days after receipt in the Office of the Registrar for the completion of this request.

To be completed by Division (please print)

SMA Sheet Metal Worker 04/07/2013
 Program # Program Name Date of Request (dd/mm/yyyy)
BLD Lawrence Ouderkirk 2013/14 onward.
 Division Program Co-ordinator Catalogs (To be updated – attach all copies)

Reason for late change:

Reporting structure changes & personnel changes have delayed these changes being submitted.

If the change is a correction to the Degree Audit, identify the impact on current students (please review and submit student EVALS with submission to determine possible impact)

Students from previous 04 years will begin the new curriculum when they next attend Fanshawe. Internal credits will be issued for affected levels for previous years.

(attach sample EVALS)

Academic Manager Signature

Greg Hux

Date (dd/mm/yyyy)

July 4th, 2013

I have read the reasons for the change and any possible impact. Permission is granted: ☐ Yes ☐ No

Vice-President Academic Signature

Date (dd/mm/yyyy)

Comments

Registrar Office Use Only

APRS Updated: ☐ Initials: _____

Catalog(s) Updated: _____

EVAL pr

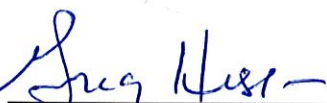
Division

Signed

*Sent to Tiffany
08/19/13*

SMA1 Degree Audit, effective 2013/14

Course		Hrs/	Credit
Code	Title	Wk	Units
Level 1			
SHMT-1019	Fabricates for Shop & Field	7	3.5
SHMT-1020	Hand/Power Tools & Shop Equip.	5	2.5
SHMT-1021	Lay-out & Drafting 1	11	4.5
SHMT-1022	Read, Interpret & Produce Dwgs	4	2
WELD-1053	Weld & Cut 1	3	1.5
	Totals	30	
Level 2			
SHMT-3010	Install HVAC Systems/Component	4	2.5
SHMT-3011	Install Roofing & Arch. Metal	3	1.5
SHMT-3012	Lay-out & Drafting 2	11	5
SHMT-3013	Interpret & Design Systems 1	9	5
WELD-3012	Weld & Cut 2	3	1.5
	Totals	30	
Level 3			
SHMT-5002	Test, Adjust & Balance	4	5
SHMT-5003	Fab/Install Specialized Systems	5	3
SHMT-5004	Layout & Drafting 3	13	5.5
SHMT-5005	Interpret & Design Systems 2	5	3
WELD-5006	Weld & Cut 3	3	1.5
		30	
	Grand Totals	90	

Approved by Chair/Manager: 

Date: July 4th 2013

Approved by Dean: 

Date: July 4, 2013

PROGRAM/CURRICULUM "RATIONALE FOR CHANGES"

All requests for changes to programs of instruction must be submitted to the Registrar's Office by December 1st each year for changes to be implemented for the following September intake. All changes require the approval of the Dean and possibly the VPA's Office, if significant.

REMINDER: We need to ensure that changes are made properly and in a timely manner to: maximize student success; optimize employment preparation; meet all quality and integrity responsibilities to MTCU, PQAPA and our Board of Governors; and meet community expectations.

- The **Program/Curriculum "Rationale for Changes"** should be completed using this template and all areas must be completed. An electronic copy of this document should be submitted to the Registrar's Office.
- The Dean/Chair responsible for the program should consult with other affected schools and obtain the appropriate sign-offs on a paper copy of this document. Once all consultations and sign-offs have occurred, the paper copy should be submitted to the RO
- Course Request Forms must also be submitted electronically to Strategy and Planning for all new courses. These will be forwarded to Scheduling following approval of the changes by the Dean and possibly the VPA's Office.

1.0 Program Requiring Changes

Program Title:	Sheet Metal Worker	
Program Alpha & Number:	SMA1	
Effective Catalog Year:	2013/14	

Please answer each of the questions below, if applicable. Missing or incomplete information may delay approval and/or implementation of the proposed changes.

2.0 Rationale for Changes

2.01 Provide a brief description of the reasons for the proposed changes.

These changes are being made to ensure compliance with Ministry standards and reportable subjects.

2.02 Students

- Are changes a response to student feedback? Or our Programs Data Report - Weak Factors? (summarize how changes address this issue)
No.
- How will changes affect student learning and success? (describe evidence to support this)
It will improve student success and learning because we are now compliant with Ministry standards, and student evaluation methods are now in line with Ministry and industry guidelines.
- How will changes affect cost of the program for students? (e.g., materials fees; equipment fees - laptop program; OSAP implications)
Not applicable.

- How will changes affect the flow of the program?
It will improve flow with more emphasis on meeting Ministry and industry outcomes.

2.03 Relationship of Program to Industry

- How do changes reflect trends in the field or in industry? (Provide data regarding industry and/or professional trends.)
Program changes will allow for delivery of relevant programming that reflects the needs of industry.

2.04 Program Learning Outcomes

- How do the changes align with Ministry outcomes? (Provide a copy of the completed program map indicating gaps/overlaps that are being corrected)
See attachments (Titles: Sheet Metal Worker - Level 1; Sheet Metal Worker - Level 2; Sheet Metal Worker - Level 3)

2.05 Relationships with Other Fanshawe College Programs

- Is this course in a ladder program or part of any other Fanshawe College program?
Not applicable.

2.06 Relations with Other Post-Secondary Programs

- How will the changes affect transfer agreements with other post-secondary institutions?
Consistent with other institutions delivering the same curriculum.
- What discussions have been initiated with these institutions regarding the changes?
All institutions delivering this curriculum follow the same Ministry guidelines.

2.07 Changes on Fit of Program with general College Requirements for Programs

- How do changes affect the fit of the program with the College's strategic plan, program mix, general education requirements, marketing?
Consistent with our new vision/mission/values.
- Are changes consistent with Colleges policies/practices? (Identify specific areas where policies/practices need to be altered if program changes approved.)
Yes, the changes are consistent with college policies and practices.

3.0 Consultation Regarding Proposed Changes

3.01 Consultation With Program Advisory Committee

- Indicate feedback from the program advisory committee regarding the changes.
Standards/curriculum set by the Ministry with community and industry input.

3.02 Consultation With Other Programs/Schools/Services

- What programs/schools/services have been consulted?
Not applicable.
- What feedback and suggestions have been offered through consultation?
Not applicable.

4.0 Resource Implications of Proposed Changes

4.01 Staffing

- Outline all staffing consequences, both for the program and related areas.
There are no staffing consequences.

4.02 Services

- Outline all consequences on other areas.
There are no consequences for other areas.

4.03 Space or Technology Requirements

- Outline how changes affect space and/or technology requirements.
Space and/or technology requirements are not affected by the proposed changes.

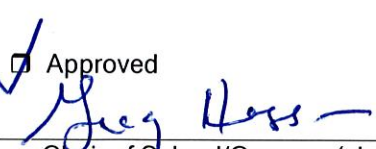
4.04 Budgetary Implications

- Outline budgetary implications (include consequences on other schools such as increase/decrease in teaching hours required)
There are no budgetary implications.
- Outline changes to materials fees.
There are no changes to materials fees.

Approvals: Chair of School and Dean of Faculty; possibly VPA's Office, if significant

☒ Approved

☐ Not Approved / Requires Changes


Chair of School/Campus (signature)


Date


Dean of Faculty (signature)


Date

Chair of Servicing School, if required (signature)

Date

Vice-President, Academic, if required (signature)

Date

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3.5 - Triangulation Lay-out	43
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4.1 - Read Drawings and Specifications to Determine Work to be Performed	46
4.2 - Produce Free-hand Sketches and Drawings to Illustrate to Others Work to be Performed	48
Equipment Required for Unit 4	49
5. Weld and Cut	50
5.1 - Cut Ferrous Metals Using Oxy-fuel Process and Plasma Cutting Techniques	51
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 2. Install Roofing and Architectural Metal.....	 14
2.1- Architectural Metal and Roof Drainage System for Residential Applications.....	15
2.2 - Architectural Metal and Flashing for Commercial and Industrial Applications.....	18
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3.1 - Parallel Line Lay-out.....	23
3.2 - Radial Line Lay-out.....	25
3.3 - Triangulation Lay-out.....	27
Equipment Required for Unit 3.....	29
 4. Interpret and Design Systems.....	 30
4.1 - Residential Load Estimating.....	31
4.2 - Residential Duct Design.....	33
4.3 - Residential Cost Estimating.....	35
Equipment Required for Unit 4.....	36
 5. Weld and Cut.....	 37
5.1 - Set-up and Operate Gas Metal Arc Welding Equipment.....	38
5.2 - Set-up and Operate Gas Tungsten Arc Welding Equipment.....	40
Equipment Required for Unit 5.....	42
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5.2 – Gas Tungsten Arc Welding (GTAW)	42
Equipment Required for Unit 5	44
 Summary of Equipment Required for Level 3	45

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↳ Apprenticeship In-school Curriculum Standards.

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Trade Code 308A.

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mtcu.

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Approvals: Chair of School and Dean of Faculty; possibly VPA's Office, if significant

☒ Approved

☐ Not Approved / Requires Changes

[Signature]

July 4th, 2013

Chair of School/Campus (signature)

Date

[Signature]

July 4, 2013

Dean of Faculty (signature)

Date

Chair of Servicing School, if required (signature)

Date

Vice-President, Academic, if required (signature)

Date

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 Summary of Equipment Required for Level 2.....	43

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Degree Audit Report

Catalog: 2012/2013

Program: SMA1
Department: BLD - Building Technology
Academic Level: AP
CCD: 7 - 2AcadSem/600-700 hrs
Credential: Ontario College Certificate

Name: Sheet Metal Apprentice

Grade Scheme: LG2
Major: SMA1 - Sheet Metal Apprentice
Co-Op Indicator: N/A

Div: MPW - Motive Power Division

Academic Program Requirement

Total Credits: 50.00
GPA Requirement: 2.000
Minimum Grade: D

Residency Reqmt: 13.00
Residency Reqmt GPA: 2.000

Academic Requirement: SMA1.12 Sheet Metal Apprentice

Major: SMA1
Grade Scheme: LG2
Minimum GPA: 2.000
Minimum Grade:

Subrequirement: Level 1 - Basic

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
MATH-1022	Trade Calculations	16.00	1.00	
SHMT-1001	Blueprint Reading	24.00	2.00	
SHMT-1002	Sheet Metal Theory	72.00	5.00	
SHMT-1003	Pattern Development	48.00	3.00	
SHMT-1004	Sheet Metal Practical	56.00	4.00	
WELD-1003	Sheet Metal Welding	24.00	2.00	

Subrequirement: Level 2-Intermediate

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
MATH-3004	Trade Calculations	16.00	1.00	
SHMT-3001	Blueprint Reading	24.00	2.00	
SHMT-3002	Sheet Metal Theory	72.00	4.00	
SHMT-3004	Sheet Metal Practical	56.00	4.00	
SHMT-3005	Pattern Development	48.00	3.00	
WELD-3002	Sheet Metal Welding	24.00	2.00	

Subrequirement: Level 3 - Advanced

Take all of the following Mandatory Courses:

		Total Hours	Total Credits	GE
MATH-3007	Trade Calculations	16.00	1.00	

Degree Audit Report

SHMT-3003	Sheet Metal Theory	72.00	5.00
SHMT-3006	Blueprint Reading	24.00	2.00
SHMT-3007	Pattern Development	48.00	3.00
SHMT-3008	Sheet Metal Practical	56.00	4.00
WELD-3005	Sheet Metal Welding	24.00	2.00

Subrequirement: Program Residency

Students Must Complete a Minimum of 13 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program

 Approved By Chair/Manager:

 Department and Date:

 Approved by Dean:

 Date:

 General Education Approved By(as appropriate):

 Date:

NEW.

SMA1 Degree Audit, effective 2013/14

Course Code	Title	Hrs/Wk	Credit Units
Level 1			
SHMT-1019	Fabricates for Shop & Field	7	3.5
SHMT-1020	Hand/Power Tools & Shop Equip.	5	2.5
SHMT-1021	Lay-out & Drafting 1	11	4.5
SHMT-1022	Read, Interpret & Produce Dwgs	4	2
WELD-1053	Weld & Cut 1	3	1.5
	Totals	30	
Level 2			
SHMT-3010	Install HVAC Systems/Component	4	2.5
SHMT-3011	Install Roofing & Arch. Metal	3	1.5
SHMT-3012	Lay-out & Drafting 2	11	5
SHMT-3013	Interpret & Design Systems 1	9	5
WELD-3012	Weld & Cut 2	3	1.5
	Totals	30	
Level 3			
SHMT-5002	Test, Adjust & Balance	4	5
SHMT-5003	Fab/Install Specialized Systems	5	3
SHMT-5004	Layout & Drafting 3	13	5.5
SHMT-5005	Interpret & Design Systems 2	5	3
WELD-5006	Weld & Cut 3	3	1.5
		30	
	Grand Totals	90	

— scheduled using new titles & course #s
 — haven't been compliant for 9 years.
 — personnel change.
 ↳ brought forward.

Approved by Chair/Manager: Greg Hest

Date: July 4th 2013

Approved by Dean: W. H. Hagan

Date: July 4, 2013

78.